

### ABSTRACT

A shredder for shredding material is provided that includes a housing. having a cutting device to shred material. A receptacle is also included and is positioned to receive the shredded material. A detecting device is positioned between the cutting device and the receptacle and emits and detects a beam so that when shredded material occupies a first position within the receptacle the beam is interrupted. Advantageously, the detecting device may be used as a bin full detection device to provide indication that a bin is filled or substantially filled with shredded material.